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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet	1	of	3
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Application Number	10/632,117
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Filing Date	July 31, 2003
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First Named Inventor	Hilda E. Smith
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Group Art Unit	1645
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Examiner Name	J. Hines
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Attorney Docket Number	2183-6055US
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[illegible]

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		WO 00/05378	02-03-2000	Stichting Dienst Landbouwkundig Onderzoek		
		WO 2009/020391 A1	08-05-2008	Boehringer Ingelheim Vetmedica GMBH		
		WO 96/23073	08-1996	Jorgensen		
		WO 93/18164	09-1993	Gruss et al.		

Date
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STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known

Application Number	10/632,117
Filing Date	July 31, 2003
First Named Inventor	Hilda E. Smith
Group Art Unit	1645
Examiner Name	J. Hines
Attorney Docket Number	2183-60551US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BAUMS et al., Clinical and Vaccine Immunology, Feb. 2009, pp. 200-208, Vol. 16, No. 2.	
		CHOTHIA et al., The Embo Journal, 1986, pp. 823-26, Vol. 5, No. 4.	
		DATABASE EMBL 'Online' McNab, S. gordonii partial aldB gene, cshA gene & fbpA gene, Database accession No. X65164, XP002213089.	
		DEVRIESE et al., Avian Pathology, 1994, pp. 721-24, Vol. 23.	
		GREENSPAN et al., Nature Biotechnology, 1999, pp. 936-37, Vol. 7.	
		HAMPSON et al., Journal of Clinical Microbiology, 1993, pp. 2895-2900, Vol. 31, No. 11.	
		Merck Manual On-line Streptococcal Disease (pages 1-6), retrieved from web on 11-16-2009.	
		Merriam-Webster Online Dictionary, (visited 6/7/2004) < http://www.m-w.com/cgi-bin/dictionary?book=Dictionary&va=vaccine&x=19&y=12 >.	
		MIKAYAMA et al., Nov. 1993, Proc. Natl. Acad. Sci., USA., pp. 10056-60, Vol. 90.	
		PCT International Preliminary Examination Report, PCT/NL99/00460, dated October 27, 2000.	
		PCT International Search Report, PCT/NL99/00460, dated April 5, 2000, 6 pages.	
		RUDINGER et al., Characteristics of the amino acids as components of a peptide hormone sequence. Peptide hormones. Biol. Council, June 1976, pp. 1-7.	
		SMITH et al., submitted Sept. 10, 2000, Genbank Accession No. AF306940.	
		WISSELINK et al., Assessment of protective efficacy of live and killed vaccines based on a non-encapsulated mutant of Streptococcus suis serotype 2, Veterinary Microbiology, 2002, pp. 155-68, Vol. 84.	
		ZHANG et al., Identification and characterization of an antigen I/II family protein produced by group A streptococcus, Infection and Immunity, July 2006, pp. 4200-13, Vol. 74, No. 7.	

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Sheet

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Attorney Docket Number	2183-60551JS

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		Office Action for U.S. Patent Application No. 11/516,691, dated 10/15/2007.	
		Office Action for U.S. Patent Application No. 11/516,691, dated 02/26/2008.	
		Office Action for U.S. Patent Application No. 11/516,691, dated 04/22/2008.	
		Office Action for U.S. Patent Application No. 11/516,691, dated 12/05/2008.	
		Office Action for U.S. Patent Application No. 11/516,691, dated 06/22/2009.	
		Office Action for U.S. Patent Application No. 11/516,691, dated 11/25/2009.	
		Notice of Allowance for U.S. Patent Application No. 11/516,691, dated 3/19/2010.	
		Office Action for U.S. Patent Application No. 11/982,192, dated 05/17/2010.	

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